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Washington University Medical School, St. Louis, Mo., for assistance in excluding the other known dermatoses.

Conclusion.

The conclusion is drawn that pellagra has been caused in at least 6 of 11 volunteers as the result of the restricted diet on which they subsisted.

Acknowledgments.

The above experiment was made possible by the cooperation of Gov. Brewer, whose interest was enlisted by the intervention of Dr. Galloway. To these gentlemen acknowledgments are due and are here made for their invaluable assistance.

PLAGUE-PREVENTION WORK.

CALIFORNIA.

The following report of plague-prevention work in California for the week ended October 23, 1915, has been received from Senior Surg. Pierce, of the United States Public Health Service, in charge of the work:

SAN FRANCISCO, CAL.			
RAT PROOFING.		OPERATIONS ON THE WATER FRONT.	
New buildings:		Vessels inspected for rat guards.....	17
Inspections of work under construction.....	177	Reinspections made on vessels.....	31
Basements concreted (square feet, 47,130).....	80	New rat guards procured.....	18
Floors concreted (square feet, 99,432).....	34	Defective rat guards repaired.....	13
Yards, passageways, etc. (square feet, 35,956).....	95	Rats trapped on wharves and water front..	43
Total area concrete laid (square feet).....	182,518	Rats trapped on vessels.....	26
Class A, B, and C (fireproof) buildings:		Traps set on wharves and water front.....	170
Inspections made.....	165	Traps set on vessels.....	76
Roof and basement ventilators, etc., screened.....	3,608	Vessels trapped on.....	16
Wire screening used (square feet).....	17,766	Poisons placed on water front.....	3,600
Openings around pipes, etc., closed with cement.....	2,834	Poisons placed within Panama-Pacific International Exposition Grounds.....	7,200
Sidewalk lens lights replaced.....	4,980	Bait used on water front and vessels, bacon (pounds).....	6
Old buildings:		Amount of bread used in poisoning water front (loaves).....	12
Inspections made.....	465	Poison used on water front (pounds).....	6
Wooden floors removed.....	28	RATS COLLECTED AND EXAMINED FOR PLAGUE.	
Yards and passageways, planking removed.....	13	Collected.....	427
Cubic feet new foundation walls installed.....	6,815	Examined.....	237
Concrete floors installed (square feet, 47,406).....	45	Found infected.....	None.
Basements concreted (square feet, 23,815).....	25	RATS IDENTIFIED.	
Yards and passageways, etc., concreted (square feet, 18,063).....	71	Mus norvegicus.....	214
Total area concrete laid (square feet).....	89,284	Mus musculus.....	91
Floors rat proofed with wire cloth (square feet, 6,325).....	5	Mus alexandrinus.....	75
Buildings razed.....	14	Mus rattus.....	47
Garbage cans stamped approved.....	250	SQUIRRELS COLLECTED AND EXAMINED FOR PLAGUE.	
Nuisances abated.....	374	Contra Costa County.....	174
		Found infected.....	None.
		RANCHES INSPECTED AND HUNTED OVER.	
		Contra Costa County.....	26

Record of plague infection.

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number rodents found infected since May, 1907.
Cities:				
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	(1)	398 rats.
Oakland.....	Aug. 8, 1911	Dec. 1, 1908	(1)	126 rats.
Berkeley.....	Aug. 28, 1907	(1)	(1)	(1).
Los Angeles.....	Aug. 11, 1908	(1)	Aug. 21, 1908	1 squirrel.
Counties:				
Alameda (exclusive of Oakland and Berkeley).....	Sept. 24, 1909	Oct. 17, 1909 ²	July 12, 1915	287 squirrels, 1 wood rat.
Contra Costa.....	July 13, 1915	(1)	Sept. 16, 1915	1,594 squirrels.
Fresno.....	(1)	(1)	Oct. 27, 1911	1 squirrel.
Merced.....	(1)	(1)	July 12, 1911	5 squirrels.
Monterey.....	(1)	(1)	Apr. 10, 1914	6 squirrels.
San Benito.....	June 4, 1913	(1)	Aug. 14, 1915	50 squirrels.
San Joaquin.....	Sept. 18, 1911	(1)	Aug. 26, 1911	18 squirrels.
San Luis Obispo.....	(1)	(1)	Jan. 29, 1910	1 squirrel.
Santa Clara.....	Aug. 31, 1910	(1)	July 23, 1913	25 squirrels.
Santa Cruz.....	(1)	(1)	May 17, 1910	3 squirrels.
Stanislaus.....	(1)	(1)	June 2, 1911	13 squirrels.

¹ None.² Wood rat.

The work is being carried on in the following-named counties: Alameda, Contra Costa, San Francisco, Stanislaus, San Benito, and Monterey.

LOUISIANA—NEW ORLEANS—PLAGUE ERADICATION.

The following report of plague-eradication work at New Orleans for the week ended October 30, 1915, was received from Surg. Creel, of the United States Public Health Service, in charge of the work:

OUTGOING QUARANTINE.		BUILDINGS RAT PROOFED—continued.	
Vessels fumigated with sulphur.....	12	By concrete floor and wall.....	47
Vessels fumigated with carbon monoxide....	17	By minor repairs.....	158
Vessels fumigated with cyanide gas.....	3	Total buildings rat proofed.....	316
Sulphur used (pounds).....	930	Concrete laid (square yards).....	4,883
Coke consumed in carbon monoxide fumigation (pounds).....	25,800	Lots and sheds, planking removed.....	16
Cyanide used in cyanide-gas fumigation (pounds).....	154	Buildings demolished.....	43
Sulphuric acid used in cyanide-gas fumigation (pints).....	154	Total buildings rat proofed to date (abated).....	94,095
Clean bills of health issued.....	35	LABORATORY OPERATIONS.	
Foul bills of health issued.....	1	Rodents received by species:	
FIELD OPERATIONS.		Mus rattus.....	185
Rats trapped.....	8,048	Mus norvegicus.....	1,009
Premises inspected.....	7,752	Mus alexandrinus.....	188
Notices served.....	1,198	Mus musculus.....	6,430
Garbage cans installed.....	127	Wood rats.....	49
BUILDINGS RAT PROOFED.		Muskrats.....	14
By elevation.....	64	Putrid (included in enumeration of species).....	68
By marginal concrete wall.....	47	Total rodents received at laboratory.....	7,875
		Rodents examined.....	1,801
		Suspicious rats.....	13
		Plague rats confirmed.....	2

PLAGUE RATS.

Case No.	Address.	Captured.	Diagnosis confirmed.	Treatment of premises.
263	Jordan Avenue and Dorgenois Street.	Oct. 17, 1915	Oct. 29, 1915	Intensive trapping.
264	4811 Magazine Street.....	Oct. 14, 1915	Oct. 30, 1915	Intensive trapping; expedition of rat proofing in environment.

Number of human plague cases.....	None.	Total cases of rodent plague to Oct. 30, by species:	
Last case of human plague, Sept. 8, 1915.		Mus musculus.....	5
Last case of rodent plague, Oct. 30, 1915.		Mus rattus.....	18
Total number of rodents captured to Oct. 30.....	482,160	Mus alexandrinus.....	8
Total number of rodents examined to Oct. 30.....	296,957	Mus norvegicus.....	233
		Total rodent cases to Oct. 30, 1915.....	264

WASHINGTON—SEATTLE—PLAGUE ERADICATION.

The following report of plague-eradication work at Seattle for the week ended October 23, 1915, was received from Surg. Lloyd, of the United States Public Health Service, in charge of the work:

RAT PROOFING.		WATER FRONT—continued.	
New buildings inspected.....	27	Sulphur used (pounds).....	4,000
New buildings reinspected.....	28	New rat guards installed.....	8
Basements concreted, new buildings (square feet, 12,490).....	12	Defective rat guards repaired.....	32
Floors concreted, new buildings (square feet, 7,775).....	8	Fumigation certificates issued.....	1
Yards, etc., concreted, new structures (square feet, 1,750).....	2	Port sanitary statements issued.....	48
Sidewalks concreted (square feet).....	6,725	The usual day and night patrol was maintained to enforce rat guarding and fending.	
Total concrete laid, new structures (square feet).....	28,740	MISCELLANEOUS WORK.	
New buildings elevated.....	5	Rat-proofing notices sent to contractors, new buildings.....	13
New premises rat proofed, concrete.....	22	Letters sent in re rat complaints.....	5
Buildings razed.....	4	RODENTS EXAMINED IN EVERETT.	
LABORATORY AND RODENT OPERATIONS.		Mus norvegicus trapped.....	53
Dead rodents received.....	22	Mus musculus trapped.....	1
Rodents trapped and killed.....	453	Total.....	54
Rodents recovered after fumigation.....	19	Rodents examined for plague infection.....	49
Total.....	494	Rodents proven plague infected.....	None.
Rodents examined for plague infection.....	365	RAT-PROOFING OPERATIONS IN EVERETT.	
Poison distributed..... pounds..	25	New buildings:	
Bodies examined for plague infection.....	2	Inspected.....	8
CLASSIFICATION OF RODENTS.		Concrete foundations.....	7
Mus rattus.....	26	Elevated 18 inches.....	1
Mus alexandrinus.....	106	Basements concreted (square feet, 900).....	1
Mus norvegicus.....	262	Floors concreted (square feet, 2,880).....	1
Mus musculus.....	100	Yards concreted (square feet, 5,042).....	3
WATER FRONT.		Total concrete laid, new structures (square feet).....	8,822
Vessels inspected and histories recorded.....	12	Old building basements concreted (square feet, 560).....	1
Vessels fumigated.....	1		

HAWAII—PLAGUE PREVENTION.

The following reports of plague-prevention work in Hawaii were received from Surg. Trotter, of the United States Public Health Service:

Honolulu.

WEEK ENDED OCT. 16, 1915.

Total rats and mongoose taken.....	316	Average number of traps set daily.....	984
Rats trapped.....	273	Cost per rat destroyed, 23½ cents.	
Mongoose trapped.....	7	Last case rat plague, Aiea, 9 miles from Honolulu,	
Rats shot from trees.....	36	Apr. 12, 1910.	
Examined microscopically.....	251	Last case human plague, Honolulu, July 12, 1910.	
Showing plague infection.....	None.	Last case rat plague, Kalopa stable, Paauhau,	
Classification of rats trapped:		Hawaii, Aug. 29, 1914.	
<i>Mus alexandrinus</i>	159	Last case human plague, Paauhau Landing, Ha-	
<i>Mus musculus</i>	81	waii, Aug. 16, 1914.	
<i>Mus norvegicus</i>	26		
<i>Mus rattus</i>	7		
Classification of rats shot from trees:			
<i>Mus alexandrinus</i>	32		
<i>Mus rattus</i>	4		

Hilo.

WEEK ENDED OCT. 9, 1915.

Rats and mongoose taken.....	3,133	Classification of rats trapped and found	
Rats trapped.....	3,090	dead—Continued.	
Rats found dead.....	1	<i>Mus rattus</i>	577
Mongoose taken.....	42	<i>Mus musculus</i>	1,778
Rats and mongoose examined macroscopi-		Last case of rat plague, Paauhau Sugar Co., Aug.	
cally.....	3,133	29, 1914.	
Rats and mongoose plague infected.....	0	Last case of human plague, Paauhau Sugar Co.,	
Classification of rats trapped and found dead:		Aug. 16, 1914.	
<i>Mus norvegicus</i>	480		
<i>Mus alexandrinus</i>	256		